H905FLHFE Board

The H905FLHFE board is an 16-port Flex-PON OLT interface board. It can support GPON, XG(S)-PON, and XG(S)-PON&GPON Combo access now. It works together with the optical network unit (ONU) to provide XG(S)-PON and GPON access services.

Benefits

- **High density and energy saving**
  - High density and low power consumption, supporting 2048 access users
- **High reliability**
  - Chip-level type B protection (single-homing and dual-homing) and type C protection (single-homing and dual-homing) switching
  - Real-time rogue ONT detection and isolation, ensuring stable service running
- **High-value services**
  - 4-level HQoS, improving user experience
  - 9216 jumbo frames, greatly improving transmission efficiency
- **Intelligent management channel**
  - Smart processing of XG(S)-PON and GPON services, meeting hybrid service requirements and reducing board and spare part types
- **Efficient OAM**
  - Variable-length of OMCI, improving upgrade efficiency and reducing break off time
  - A maximum distance difference of 40 km between two ONUs under the same PON port (board capability), simplifying network planning
  - VMOS, improving video troubleshooting efficiency

External Interfaces

16* XG(S)-PON&GPON ports (SFP/SFP+)

- Max. split ratio: 1: 256

Specifications

Function	
Rate mode	Asymmetric rate Symmetric rate
T-CONTs per PON port	GPON: 1024 XG(S)-PON: 2048
Service flows per PON board	16352
Maximum frame size	2052 bytes 9216 bytes (jumbo frame enabled)
Maximum number of MAC addresses	131072
Maximum distance difference between two ONUs under the same PON port (board capability)	40 km
FEC	Bidirection
CAR group	Supported
HQoS	Supported
Variable-length OMCI	Supported
ONU-based shaping or queue-based shaping	Supported
Type B protection (single-homing)	Supported
Type B protection (dual-homing)	Supported
Type C protection (single-homing)	Supported
Type C protection (dual-homing)	Supported
1588v2	Supported
Rogue ONT detection and isolation	Supported
Automatic shutdown at high temperature	Supported
Energy saving for service boards	Supported
Environment	
Operating temperature	-40° C to +55° C
Power consumption	Static: 36 W Maximum: 86 W